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L1	172	homoserine transsuccinylase or SAM and L-methionine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/08/04 15:07
L2	11	I1 and reduced sensitivity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/08/04 15:03

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1. [Norleucine accumulation by a norleucine-resistant mutant of *Serratia marcescens*.](#)
Kisumi, M / Sugiura, M / Chibata, I, Applied and Environmental Microbiology, Dec 2003
 A norleucine-resistant **mutant** was derived from an isoleucine-valine...marcescens. The norle **mutant** could accumulate norleucine from...which antagonized norleucine. This **mutant** cons **homoserine-O-transsuccinylase**.

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2. [Norleucine accumulation by a norleucine-resistant mutant of *Serratia marcescens*.](#)
M Kisumi / M Sugiura / I Chibata, Appl Environ Microbiol, Aug 1977
 A norleucine-resistant **mutant** was derived from an isoleucine-valine...marcescens. The norle **mutant** could accumulate norleucine from...which antagonized norleucine. This **mutant** cons **homoserine-O-transsuccinylase**.

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3. [No Title \[ASCII-246K\]](#)
 Feb 2003
 ...phosphatase ackA 1203 P15046 2411.50 Acetate kinase **mutants** fluoroacetate resistant a P25516...add 1002 P22333 1700.30 Adenosine deaminase **mutants** affect growth on deoxya **mutants** adhC 1110 P25437 378.80 Alcohol-acetaldehyde...
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4. [Subject index vol. 23 \(1984\)](#)
FEMS Microbiology Letters, Jul 1984
 ...283 Halobacterium halobium, **mutant**, constitutive production of...extracts, in vitro activity dehydrogenase, Pseudomonas aeruginosa, **mutant**, lysine excretion, 11 **homoserine trans** Escherichia coli, metA gene...

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5. GENENAME CAI ADDF [ASCII-235K]
Feb 2003
...60599107 "orf,_hypothetical_protein" guaB0.60543096 "IMP_dehydrogenase" suhB0.6050! "enhances_synthesis_of_sigma32_in_mutant;_extragenic_suppressor,_may_modulate_RNA: hlpA0.6043104 "histone-like_protein,_located_in_outer_membrane..."
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6. COMPOSITIONS AND METHODS FOR MODELING
PARK, Sung, M. / SCHILLING, Christophe, H. / PALSSON, Bernhard, O. / GENOMATI
COOPERATION TREATY APPLICATION, Oct 2003
The invention provides an in silico model for determining a *Bacillus subtilis* physiological function includes a data structure relating a plurality of *B. subtilis* reactants to a plurality of *B. subtilis* constraint...
Full text available at patent office. For more in-depth searching go to 
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7. No Title [ASCII-164K]
Oct 2003
...3-deoxygluconate permease 2-oxoglutarate dehydrogenase paren dihydrolipoamide **trans** subunit paren 2-oxoglutarate dehydrogenase paren dihydrolipoamide **transsuccinylase**, E2 : oxoglutarate dehydrogenase paren E1 subunit paren...
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8. No Title [ASCII-219K]
May 1999
Cluster Distance Y_name SGID GENE Chromsome Start End Introns Exons Description 1 0.3 S0000168 RPS8A II 89116 88514 0 1-603 Ribosomal protein S8A (S14A) (rp19) (YS9) 1 0.75 S0000179 II 70128 69703 0 1-426 1 0.
[\[http://arep.med.harvard.edu/network_discovery/clusters...\]](http://arep.med.harvard.edu/network_discovery/clusters...)
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9. GENE DESCRIPTION OF THE GENETIC MAP OF BACILLUS SUBTILIS [ASCII-104K]
Oct 1996
...helicase || (276) (277) (812) (914). || addB| 98| Subunit of ATP-dependent deoxyribonuc show increased stability for some || plasmids (276) (277) (812) (914). || adeC| 124| Adenir
[\[http://locus.jouy.inra.fr/genmic/madbase/genes/tabgene...\]](http://locus.jouy.inra.fr/genmic/madbase/genes/tabgene...)
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10. Amino acid biosynthesis and its regulation in cyanobacteria
Riccardi, G. / de Rossi, E. / Milano, A., *Plant Science*, Jan 1989
...Utilizing a phenyl- alanine requiring **mutant** strain {lacking pre- phenate dehydratase...dif heterocysts and akinetes. Indeed, **mutant** ana- lyses and physical separation of...29151 [38]. [39]. **Mutants** deficient in the regulation of biosyn...
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11. pdf-249 249..266 [PDF-90K]
Sep 2002
Nature © Macmillan Publishers Ltd 1997 NATURE | VOL 390 | 20 NOVEMBER 1997 249 article genome sequence of the Gram-positive bacterium *Bacillus subtilis* F. Kunst1, N. Ogasawara2, Albertini4, G. Alloni4, V. Azevedo5, M. G. Bertero3,4, P. Bessie`res5, A. Bolotin5, S.
[\[http://microimm.queensu.ca/micr930/pdf_files/Bacillus_...\]](http://microimm.queensu.ca/micr930/pdf_files/Bacillus_...)
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12. Expression of the metA gene of Escherichia coli K-12 in recombinant plasmids
Michaeli, S. / Ron, E.Z., *FEMS Microbiology Letters*, Jul 1984

...enzyme **homoserine transsuccinylase** (HTS) (b) resistance...recombinant plasmids (**HOI**) transsuccinylase metA gene methionine...a spontaneous **mutant** for ethionine...determinant **transsuccinylase** (HTS) Cells were...

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13. [Regulation of O-alkylhomoserine-forming enzyme involved in methionine biosynthesis in *Corynebacterium acetophilum*](#)

Murooka, Y. / Harada, T., *Biochimica et Biophysica Acta (BBA)/General Subjects*, Aug 1970
...showed that the auxotrophic **mutant**, which can grow with O-ethylhomoserine but not with place of methionine on...However, the inductions of **homoserine-O-transsuccinylase** and **t** transacetylase are unknown...

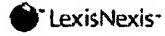
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14. [YEAST PROTEOME ANALYSIS](#)

BADER, Gary / CLIMIE, Shane / DUROCHER, Daniel / FIGEYS, Daniel / GRUHLER, Al
Adrian, Mark / HO, Yuen / (...) / MUSKAT, Brenda, *PATENT COOPERATION TREATY APP*, Methods and reagents for high throughput analysis of protein-protein interaction networks us spectrometry.

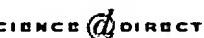
Full text available at patent office. For more in-depth searching go to 

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15. [Suppression of filamentation in a new lex mutant by a linked \(lexA\) mutation in *Escherichia coli*](#)
Donch, J.J. / Greenberg, J., *Mutation Research/Fundamental and Molecular Mechanisms of* 1976

...lexA102 1ex113. Such a **mutant** would allow us to study...on 1ex113. A double **mutant** co or...the biosynthesis of **homoserine O-transsuccinylase** [19] was being diluted...lexA1021. **mutants** did not occur because...

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16. [NUCLEIC ACID FRAGMENTS, CHIMERIC GENES AND METHODS FOR INCREASING THE METHIONINE CONTENT IN THE SEEDS OF PLANTS](#)

FALCO, Saverio, Carl / GUIDA, Anthony, Dominick, Jr. / LOCKE, Mary, Elizabeth, Harriet / PONT DE NEMOURS AND COMPANY, *PATENT COOPERATION TREATY APPLICATION*, Nov 1 1988
...feedback-insensitive aspartokinase- **homoserine** dehydrogenase (AK-HDH), which...on the A **mutant** corn line which had an elevated...aspartyl P-semialdehyde by **homoserine** dehydratase...fact be desirable to make **mutants** of the sequence in order to...

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17. [METHODS FOR IDENTIFYING DRUG TARGETS BASED ON GENOMIC SEQUENCE DATA](#)

PALSSON, Bernhard / PALSSON, Bernhard, *PATENT COOPERATION TREATY APPLICATION*, This invention provides a computational approach to identifying potential antibacterial drug targets based on the genome sequence and its annotation. Starting from a fully sequenced genome, open reading frames are made which determine the...

Full text available at patent office. For more in-depth searching go to 

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18. [METHODS FOR CONTROLLING NORLEUCINE CONTENT IN POLYPEPTIDES](#)

BRUNNER, David P. / HARBOUR, Gary C. / KIRSCHNER, Richard J. / PINNER, James Robert L. / PHARMACIA & / UPJOHN COMPANY, *EUROPEAN PATENT*, Dec 1990

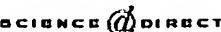
...Formation of norleucine by complex regulatory **mutants** of *Serratia marcescens* has been i 34, pp. 135-38 (1977)). A **mutant** of *S. marcescens* which was derepressed...further select a dependent **mutant** lacking threonine dehydratase. From this...

Full text available at patent office. For more in-depth searching go to  LexisNexis-
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19. Effect of d-serine on the antibiotic inhibition of one-carbon metabolism

de Lorenzo, V. / Aguilar, A. / Asensio, C., *FEMS Microbiology Letters*, Jan 1982

...Escherichia coli K-12 **dsdA mutants**, lacking the inducible...microcin 15m inhibits **homoserine transsuccinylase**, the first specific...described for **dsdA mutants**. In this paper it is...coli K- unable to form D-serine...

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20. METHODS OF OPTIMIZING SUBSTRATE POOLS AND BIOSYNTHESIS OF POLY-[bgr]

GRUY'S, Kenneth, James / MITSKY, Timothy, Albert / KISHORE, Ganesh, Murthy / SI Charles / PADGETTE, Stephen, Rogers / STARK, David, Martin / HINCHEE, Maud, An

(...) / FEDELE, Mary, Jacqueline, *PATENT COOPERATION TREATY APPLICATION*, Jan 1998

...or deregulated aspartate kinase and **homoserine** dehydrogenase wherein each of said intr or deregulated aspartate kinase **homoserine** dehydrogenase and threonine synthase...wild-t aspartate kinase **homoserine** dehydrogenase and a wild-type or deregulated...

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SF Delaney, A Dickson, NG Carr - J. Gen. Microbiol, 1973

[Cited by 12](#) - [Web Search](#)**Inhibition of Growth of Escherichia coli and of Homoserine O-Transsuccinylase by α-Methylmethionine - group of 3 »**

S Schlesinger - Journal of Bacteriology, 1967 - jb.asm.org

... pathway (4, 5, 14) and inhibits the activity of homoserine O-transsuccinylase, the first ... Strain CW3747 is a methionine-requiring mutant of Escherichia coli K ...

[Cited by 8](#) - [Web Search](#)**Regulation of the Methionine Feedback-Sensitive Enzyme in Mutants of Salmonella typhimurium - group of 3 »**

DA Lawrence - Journal of Bacteriology, 1972 - jb.asm.org

... inhibitor concentrations of 10 mM, the metA feedback-resistant mutant enzyme ... TABLE

1. Effect of L-methionine on homoserine-O-transsuccinylase formation at ...

[Cited by 7](#) - [Web Search](#)**The methionine biosynthetic pathway from homoserine in Pseudomonas putida involves the metW, metX, ... - group of 4 »**

M Alaminos, JL Ramos - Archives of Microbiology, 2001 - Springer

... Dr. Kensuke Furukawa for providing the MetZ mutant before publication ... Nucleotide sequence of the metA gene encoding homoserine transsuccinylase in Escherichia ...

[Cited by 6](#) - [Web Search](#) - [BL Direct](#)**Expression of the metA gene of Escherichia coli K-12 in recombinant plasmids. - group of 3 »**

S Michaeli, EZ Ron - FEMS Microbiology Letters, 1984 - Blackwell Synergy

... a) in vitro activity of the metA product--the enzyme homoserine transsuccinylase (HTS); (b) sup + (unmapped) and EH47 met J47 a spontaneous mutant for ethionine ...

[Cited by 4](#) - [Web Search](#)**Heat shock-dependent transcriptional activation of the metA gene of Escherichia coli - group of 5 »**

D Biran, N Brot, H Weissbach, EZ Ron - Journal of Bacteriology, 1995 - jb.asm.org

... Cultures of strain GW1000 (C) and its rpoH mutant, GW4701 (A), were grown at 32

C ... Regulation of homoserine transsuccinylase in whole cells of Bacillus polymyxa ...

[Cited by 20](#) - [Web Search](#) - [BL Direct](#)**Microcin 15m from Escherichia coli: mechanism of antibiotic action. - group of 3 »**

A Aguilar, JC Perez-Diaz, F Baquero, C Asensio - Antimicrobial Agents and Chemotherapy, 1982 - aac.asm.org

... of the first enzyme of the methionine biosynthetic pathway, homoserine-

O-transsuccinylase, in a ... in our laboratory (1). An E. coli LP15 met mutant was obtained ...

[Cited by 4](#) - [Web Search](#)**Screening for mutants temperature sensitive in protein synthesis by using methionine**

analogues - group of 2 »

A Schmidt, L Bialer, EZ Ron - Molecular Genetics and Genomics, 1981 - Springer

... inactivation of the first enzyme in methionine biosynthesis, **homoserine**

transsuccinylase (Ron and ... relA mutation the high rate of RNA synthesis of **mutant** ...

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Norleucine accumulation by a norleucine-resistant **mutant** of *Serratia marcescens*. - group of 4

»

M Kisumi, M Sugiura, I Chibata - Applied and Environmental Microbiology, 1977 - aem.asm.org

... This **mutant** constitut- tively formed **homoserine-O-transsuccinylase**. Norleucine is a well-known antagonist of me- thionine in many microorganisms (1, 3, 10). ...

Web Search

Regulation of Homocysteine Biosynthesis in *Salmonella typhimurium*1 - group of 3 »

MA Savin, M Flavin, C Slaughter - Journal of Bacteriology, 1972 - jb.asm.org

... **mutant**; such evidence suggests a possible role for a ... assays for the **transsuccinylase** which, in con- junction with the ... 6). L- Cystathione, L-**homoserine**, 3H-L ...

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